

Patent claims

1. An implant (4) intended to be fitted in a hole (5)
5 formed in a jaw bone (1), and comprising and/or
assigned an outer surface (9) which can interact
with the soft tissue (connective tissue) of the
jaw bone and which can be placed at the mouth (6)
10 of the hole, characterized in that the surface is
completely or partially designed or coated with
one or more porous outer layers (10) intended, on
the one hand, to promote integration between the
surface and the soft tissue, and, on the other
15 hand, to counteract penetration of organisms or
bacteria that cause inflammation, so as to ensure
continued and substantial integration.
2. The implant as claimed in patent claim 1,
20 characterized in that the porous layer (10) is
arranged with pores having mean diameters (d) of
ca. 1 μm or less.
3. The implant as claimed in patent claim 1 or 2,
25 characterized in that the porous layer (10) has a
thickness (D) of at most 5 μm , for example a
thickness of 3 μm .
4. The implant as claimed in patent claim 1, 2 or 3,
30 characterized in that in addition to said surface
(9), here called the first surface, which the
implant comprises and/or is assigned, said implant
has one or more other surfaces which are provided
with a porosity (7) coarser than the porosity of
the first surface, and in that the porosity of the
35 first surface is reduced in relation to the
coarser porosity and is chosen in the range of 30-
40% thereof.
5. The implant as claimed in any of the preceding

patent claims, characterized in that the first surface (9) covers a very large area on an upper implant part, which is up to 1/3 of the total length of the implant.

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6. The implant as claimed in any of the preceding patent claims, characterized in that the first surface (9) is completely or partially situated on a part which can be applied to the implant or
10 which is produced in one piece with the implant, for example an attachment component (6a), spacer sleeve, etc.

7. The implant as claimed in any of the preceding
15 patent claims, characterized in that the implant can be arranged in the bone tissue in such a way that the height of the soft tissue above the bone margin is 1.2 - 2.0 mm, preferably 1.5 - 1.8 mm, so that there will be remaining integration
20 between the first surface (9) and the soft tissue (2), and exposure of the underlying implant sleeve is avoided.

8. The implant as claimed in any of the preceding
25 patent claims, characterized in that, at its upper/outer portion, it supports and/or interacts with inner and outer parts (6a, 6b), where the inner part (6a) supports the first surface (9) with the porous layer or layers (10), and the
30 outer part (6b) can be temporarily removed during fitting of the implant.

9. The implant as claimed in any of the preceding
35 patent claims, characterized in that the porous layer (10) of the first surface (9) is based on anodic oxidation.

10. The implant as claimed in any of the preceding patent claims, characterized in that, by means of

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the porous layer on the first surface (9), it entails only limited outer bone or tissue absorption (12) at the mouth (5a) of the hole.